

IN THE CLAIMS:

1. - 47. (Cancelled)

48. (Currently Amended) A recording medium having video data, a plurality of programs, and a table recorded thereon, wherein

one of the plurality of programs includes a command for branching which instructs a playback device to perform branching based on a title number,

5 the table comprises (a) combinations of program identification information and mode information and (b) title numbers corresponding to the combinations,

the program identification information instructs the playback device on a program to be executed for dynamic control, when branching to a title of a corresponding title number, and

10 the mode information shows whether the program to be executed for dynamic control is a program described in an object-oriented programming language.

~~each of the plurality of programs shows a playback control procedure of the video data,~~

~~the table includes (1) identification information of each of the plurality of programs, and (2) information showing that each of the plurality of programs belongs to one of a movie mode and an enhanced mode,~~

~~one of the plurality of programs includes a command for branching, and~~

~~the branching command specifies a branch destination using indirect referencing via the table.~~

49. - 58. (Cancelled)

59. (Currently Amended) A playback device relating to a recording medium having video data, a plurality of programs, and a table including indexes pertaining to the respective plurality of programs recorded thereon, comprising:

a plurality of modules operable to execute the respective plurality of programs,

5 and

~~the plurality of modules including a module corresponding to a movie mode and a module corresponding to an enhanced mode; and~~

a manager operable to control branching between the plurality of programs,

wherein

10 one of the plurality of modules is a platform part of a virtual machine,

the table comprises (a) combinations of program identification information and mode information and (b) title numbers corresponding to the combinations,

the program identification information instructs the playback device on a program to be executed for dynamic control, when branching based on the title number occurs,

15 the mode information shows whether the program to be executed for dynamic control is a program described in an object-oriented programming language, and

when a command for branching is executed by any of the plurality of modules, the manager (i) decides a program to be activated by referring to program identification information corresponding to a title number included in the command for branching; and (ii)

20 decides whether to cause the platform part of the virtual machine that is one of the plurality of

modules to execute the program to be activated, by referring to mode information corresponding to the title number included in the command for branching.

~~the table is information showing that each of the plurality of programs belongs to either a movie mode or an enhanced mode,~~

25 ~~the branching is described, for each of the plurality of programs, using indirect referencing via the table, and the manager decides, at a time of the branching, a module for executing a program of a branch destination by referring to the table.~~

60. - 69. (Cancelled)

70. (Currently Amended) A playback method of a playback device relating to a recording medium having video data, a plurality of programs, a table including indexes pertaining to the respective programs recorded thereon, comprising the following steps executed by the playback device:

5 ~~a plurality of execution steps in each of which one of the plurality of programs is executed, the plurality of execution steps including an execution step corresponding to a movie mode and an execution step corresponding to an enhanced mode; and~~

 a control step for controlling branching between the plurality of programs, wherein

10 the table comprises (a) combinations of program identification information and mode information and (b) title numbers corresponding to the combinations,

the program identification information instructs the playback device on a program to be executed for dynamic control, when branching based on the title number occurs,

the mode information shows whether the program to be executed for dynamic
15 control is a program described in an object-oriented programming language, and
when a command for branching in the programs is executed, the control step (i)
decides a program to be activated by referring to program identification information
corresponding to a title number included in the command for branching, and (ii) decides whether
to cause a platform part of a virtual machine to execute the program to be activated, by referring
20 to mode information corresponding to the title number included in the command for branching.

~~the table is information showing that each of the plurality of programs belongs to~~
~~either a movie mode or an enhanced mode;~~

~~the branching is described, for each of the plurality of programs, using indirect~~
~~referencing via the table, and~~

25 ~~the control step is a step for deciding, at a time of the branching, an execution step~~
~~for executing a program of a branch destination by referring to the table.~~

71. (Currently Amended) A method of recording onto a recording method of a
recording medium, comprising the following steps:

creating application data by using an authoring device; and

recording the created application data on the recording medium, wherein

5 the application data includes video data, a plurality of programs, and a table,

one of the plurality of programs includes a command for branching which
instructs a playback device to perform branching based on a title number,

the table comprises (a) combinations of program identification information and
mode information and (b) title numbers corresponding to the combinations,

10 the program identification information instructs the playback device on a program
to be executed for dynamic control, when branching based on the title numbers occurs, and
the mode information shows whether the program to be executed for dynamic
control is a program described in an object-oriented programming language.
~~each of the plurality of programs shows a playback control procedure of the video~~
15 ~~data,~~
~~the table includes (1) identification information of each of the plurality of~~
~~programs, and (2) information showing that each of the plurality of programs belongs to either a~~
~~movie mode or an enhanced mode,~~
~~one of the plurality of programs includes a command for branching, and~~
20 ~~the branching command specifies a branch destination using indirect referencing~~
~~via the table.~~

72. (New) The recording medium of Claim 48, wherein
the program described in the object-oriented programming language is a program
described in a Java TM language, and
the mode information shows whether the program to be executed for dynamic control is a
5 program described in the Java TM language or a command based program.

73. (New) The playback device of Claim 59, wherein
the program described in the object-oriented programming language is a program
described in a Java TM language, and

the mode information shows whether the program to be executed for dynamic control is a
5 program described in the Java TM language or a command based program.

74. (New) The method of Claim 70, wherein
the program described in the object-oriented programming language is a program
described in a Java TM language, and
5 the mode information shows whether the program to be executed for dynamic control is a
program described in the Java TM language or a command based program.

75. (New) The method of Claim 71, wherein
the program described in the object-oriented programming language is a program
described in a Java TM language, and
5 the mode information shows whether the program to be executed for dynamic control is a
program described in the Java TM language or a command based program.